



~~EXPRE~~ S~~SENT~~ MAIL NO.: EV 812671977 US

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

List of Sections Forming Part of This Information Disclosure Statement

The following sections are being submitted for this Information Disclosure Statement:

1. [X] Preliminary Statements
 2. [X] FORM PTO-1449 (Modified)
 3. [X] Statement as to Information Not Found in Patents or Publications
 4. [X] Copies of Listed Information Items Accompanying this Statement

5. [X] Identification of Person(s) Making this Information Disclosure Statement

Section 1. Preliminary Statements

Applicants submit herewith patents, publications or other information of which they are aware, which they believe may be material to the examination of this application and in respect of which there may be a duty to disclose.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 C.F.R. § 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability or that no other material information exists.

The filing of this information disclosure statement shall not be construed as an admission against interest in any manner. Notice of January 9, 1992, 1135 O.G. 13-25, at 25.

Section 2. Form PTO-1449 (Modified)

- [X] A completed Form 1449 (Modified) is attached hereto.
[] No Form 1449 (Modified) is attached.

Section 3. Statement as to Information Not Found in Patents or Publications (Information Not Listed in Form PTO-1449)

Section 4. Copies of Listed Information Items Accompanying this Statement

Legible copies of all items listed in Form PTO-1449 (Modified) accompany this information disclosure statement.

- [X] Exceptions to the above:
[X] As this application is being filed after June 30, 2003, no copies of cited U.S. patents or patent application publications are submitted herewith.

- Regarding the foreign patents and publications and the non-patent documents listed, legible copies of such items are attached hereto.

Section 5. Identification of Person(s) Making this INFORMATION DISCLOSURE STATEMENT

The person making this statement is the attorney who signs below on the basis of the information:

- supplied by the inventor(s)
- supplied by an individual associated with the filing and prosecution of this application (37 C.F.R. § 1.56(c)).
- in the attorney's file

Respectfully submitted,



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Substitute for form 1449A/PTO

FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

| Complete if Known | |
|------------------------|--------------------------|
| Application Number | 10/689,258 |
| Filing Date | 10/20/2003 |
| First Named Inventor | Daniel E. Resasco et al. |
| Group Art Unit | 1754 |
| Examiner Name | S. Hendrickson |
| Attorney Docket Number | 5820.640 |

U. S. PATENT DOCUMENTS

| EXAM INIT. | Cite No. 1 | <u>U.S. PATENT NUMBER</u> Number | Kind Code ² (if known) | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
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FOREIGN PATENT DOCUMENTS

| EXAM INIT. | Cite No. 1 | Foreign Patent Document Office 3 Number 4 | Kind Code ⁵ (if known) | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
|------------|------------|--|--------------------------------------|---|--|---|----------------|
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U.S. and Foreign: ¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard St.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard St. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

| EXAM INIT. | | PATENT DOCUMENTS |
|------------|--|---|
| | | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published |
| | | BAHR ET AL., "Functionalization of Carbon Nanotubes by Electrochemical Reduction of Aryl Diazonium Salts: A Bucky Paper Electrode," <i>J. Am. Chem. Cos.</i> Vol. 123 (2001) pp 6536-6542. |
| | | BUFFA ET AL., "Side-Wall Functionalization of Single-Walled Carbon Nanotubes with 4-Hydroxymethylaniline Followed by Polymerization of ε-Caprolactone," <i>Macromolecules</i> , Vol 38, No. 20 (2005) pp. 8258-8263. |
| | | DYKE ET AL., "Unbundled and Highly Functionalized Carbon Nanotubes from Aqueous Reactions," <i>NanoLetters</i> , Vol. 3, No. 9 (2003) pp. 1215-1218. |
| | | SAITO, ET AL, "Electronic structure of chiral graphene tubules," <i>Appl. Phys. Lett.</i> Vol. 60, No. 18 (May 4, 1992) pp. 2204-2206. |